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# Advances in Acquisition Project Management: Capabilities Focused Acquisition Process

Raymond Jones

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**Acquisition  
Research  
Symposium:  
Creating  
Synergy  
for  
Informed  
Change**

**14-15 May 08**

# ***Advances in Acquisition Project Management***

***CAPABILITIES FOCUSED ACQUISITION PROCESS***

***—Continued—***



**COL Ray Jones**

Project Manager,  
Modular Brigade Enhancements  
Program Executive Office,  
Ground Combat Systems  
US Army

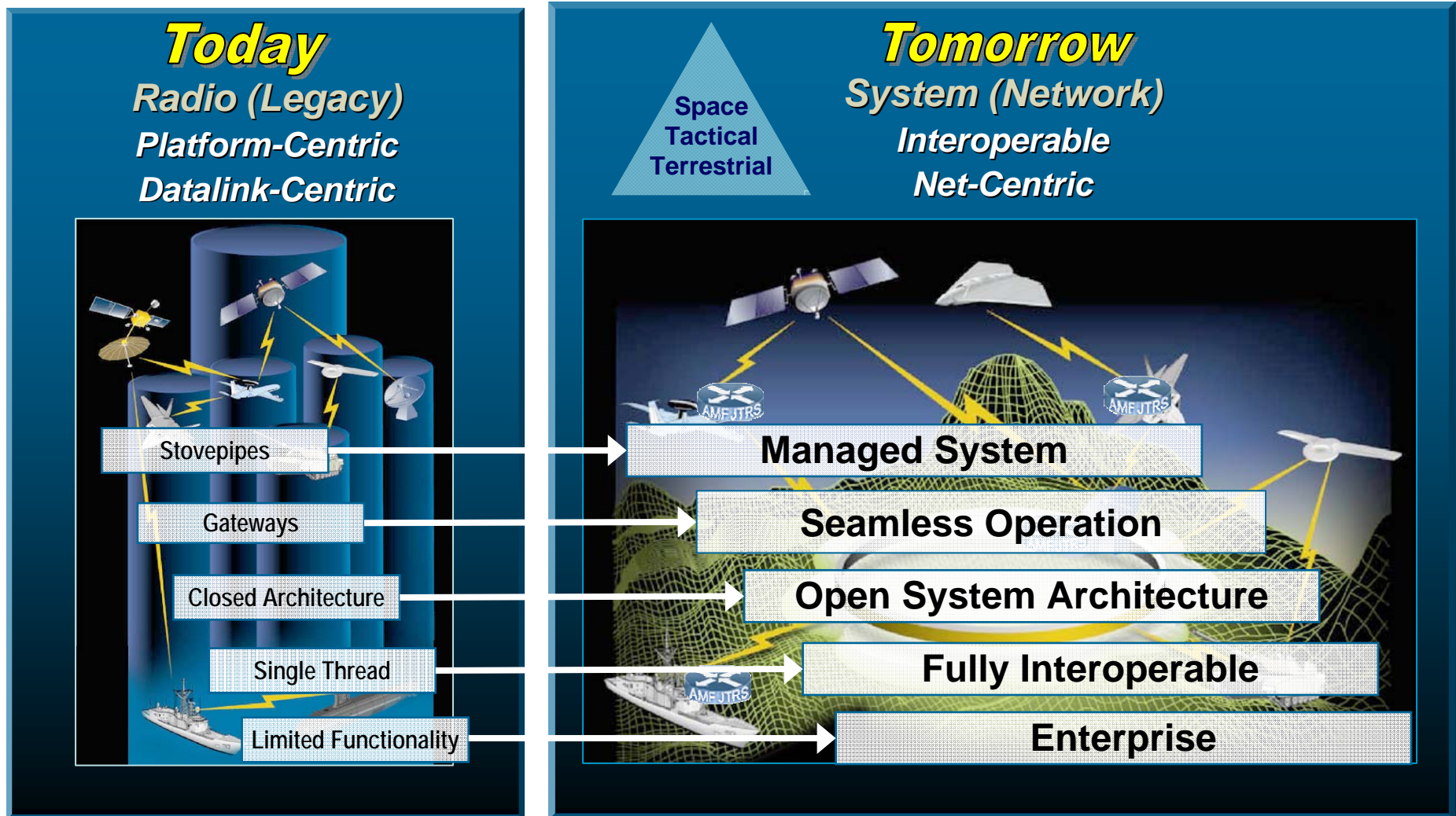


**COL Ray Jones**

Program Manager,  
Airborne, Maritime, Fixed Site (AMF)  
Joint Program Executive Office,  
Joint Tactical Radio System  
OSD



# Acquisition Objective

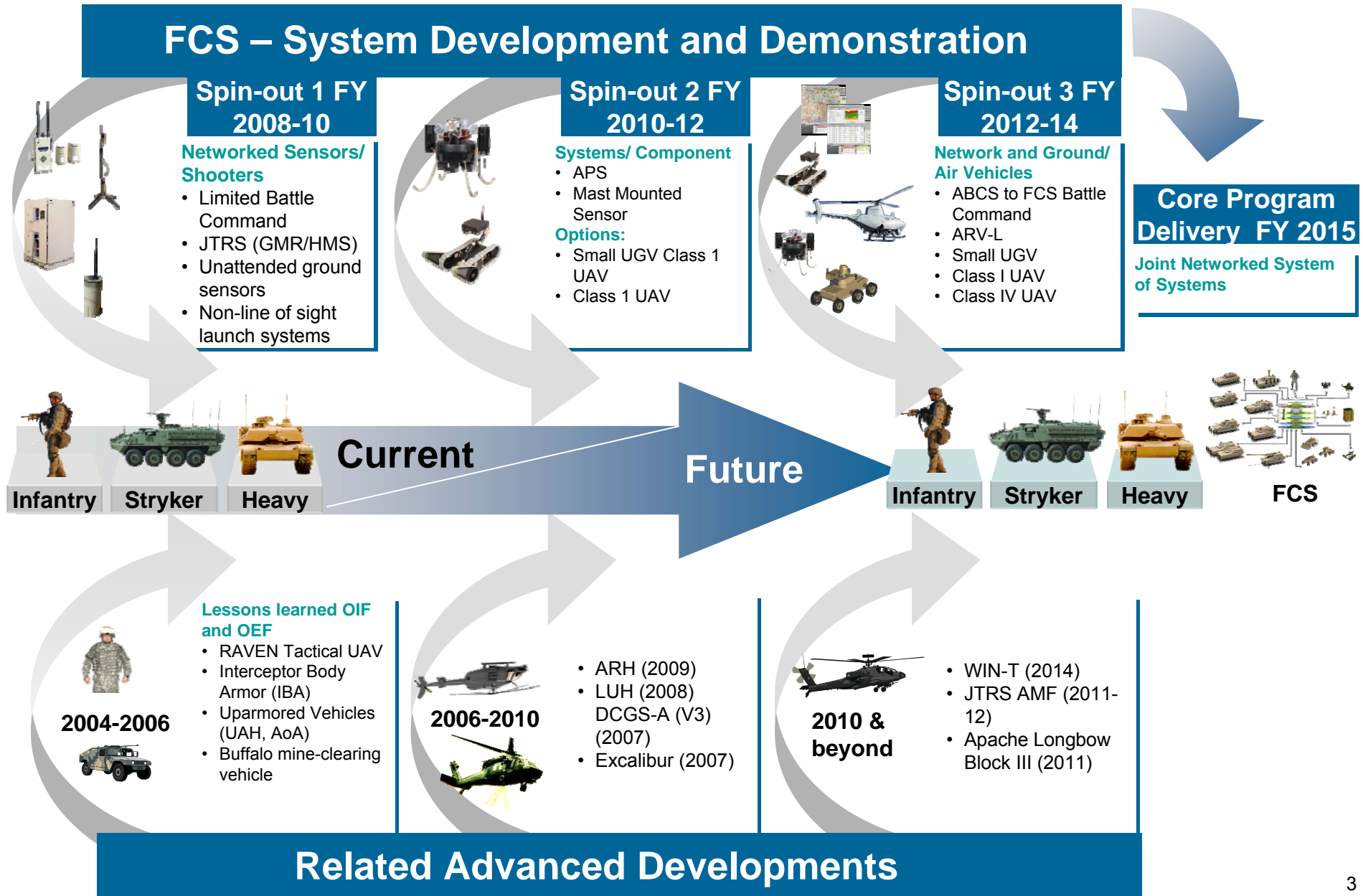


*Better Knowledge .. Better Planning .. Better Execution .... Better Results*





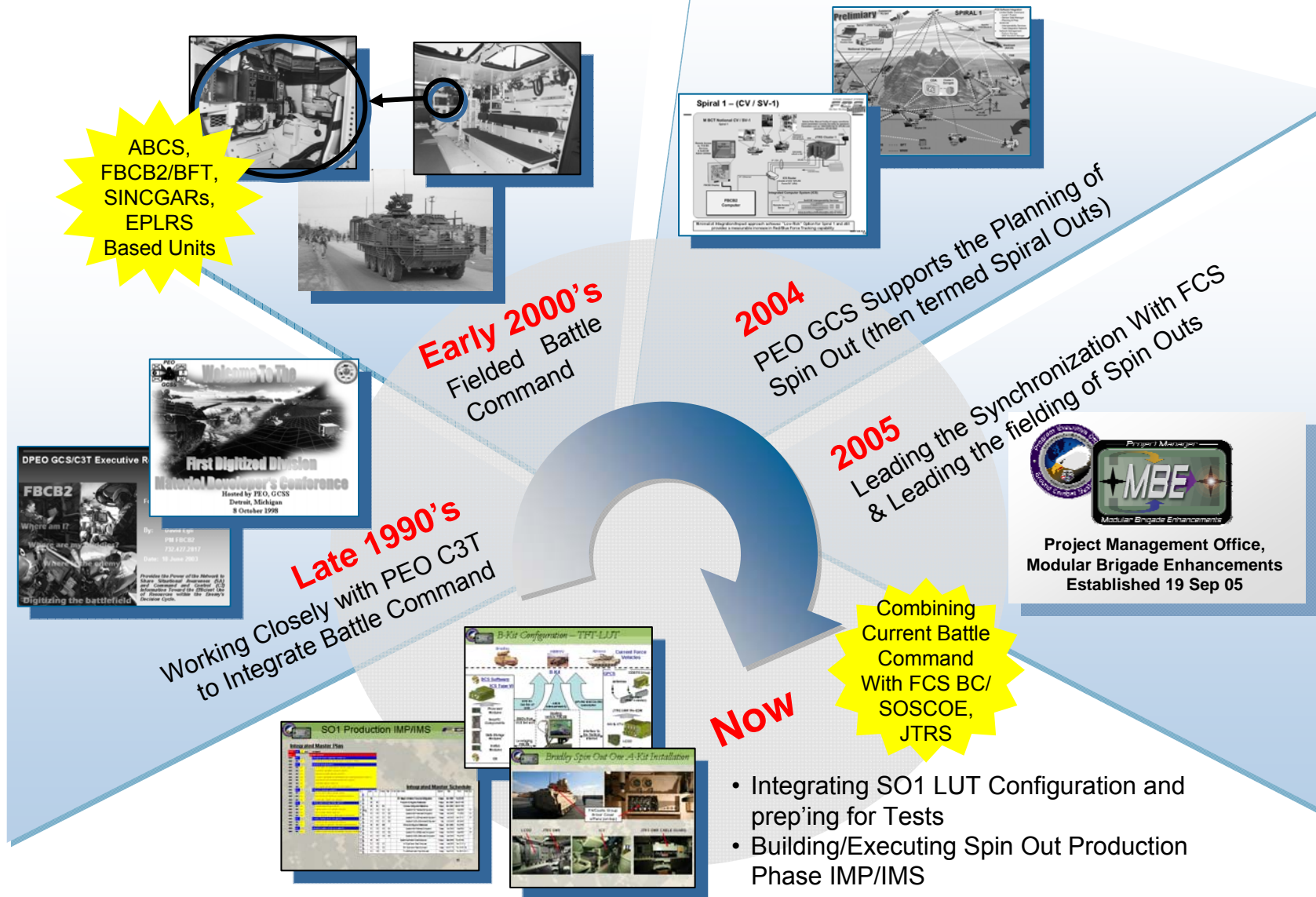
# Current To Future Force through Spin-Outs





# Battle Cmd/Vehicle Integration

## "A Teaming Effort Success Story"



Integrating *Battle Command Systems* in a manner that maximizes the use of BC information and minimizes impact to vehicle and crew





# Supporting the Army Vision Require Synchronization Modernization **WHY?**

## **WHAT WORKED BEFORE.....**



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- Vehicle infrastructure has remained relatively constant since the last development/improvement program
- Requirements are evolving / expanding and requires integration of new capability
  - New/Updated CDDs/CPDs under development
  - Integrating new capability adding to already strained power, space, and weight claims
- Integrating more in current vehicle configuration impacts crew and vehicle capability



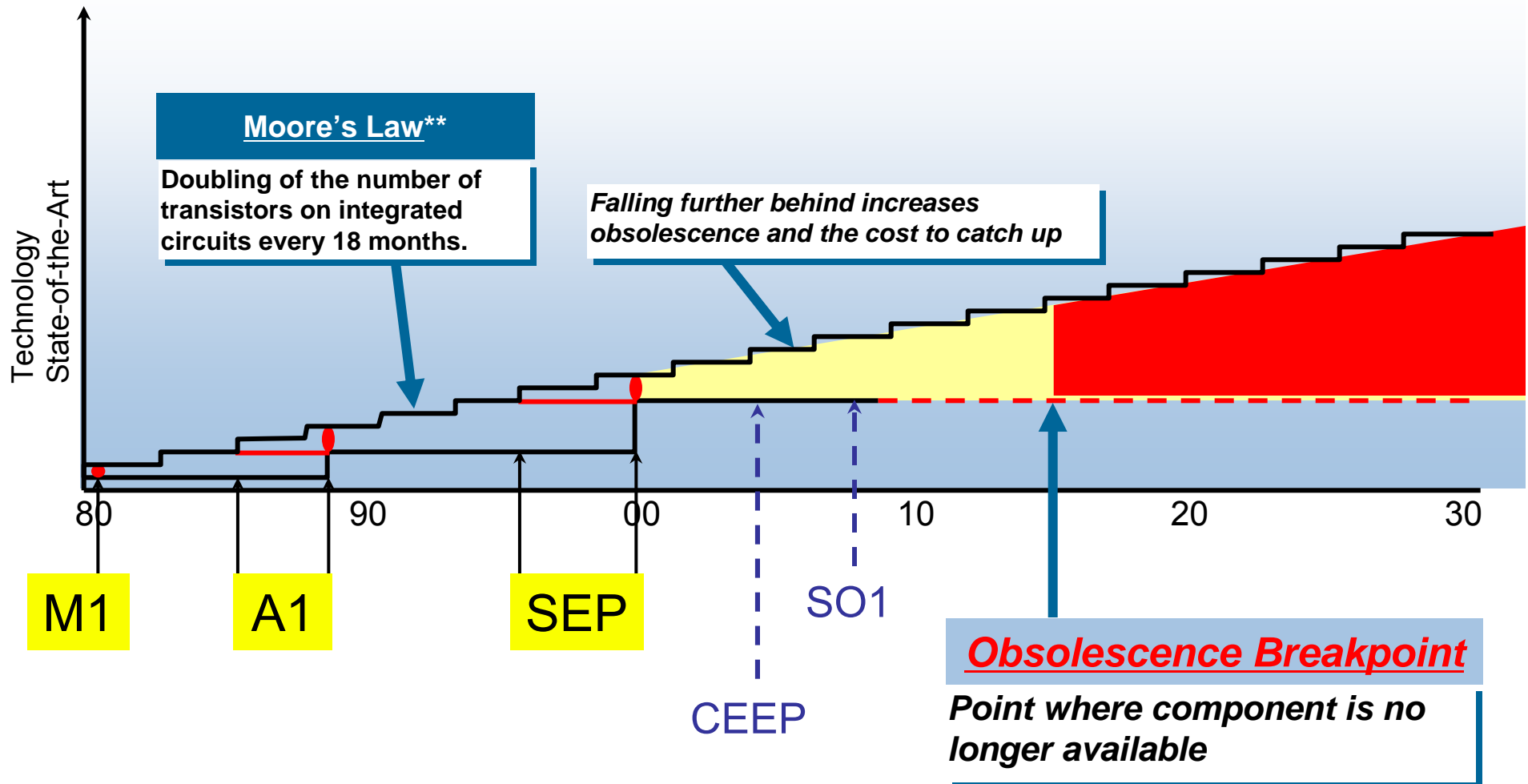
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**...DOESN'T NECESSARILY WORK NOW!**

***We are at the degradation point***



# Obsolescence vs. Technology Advancement

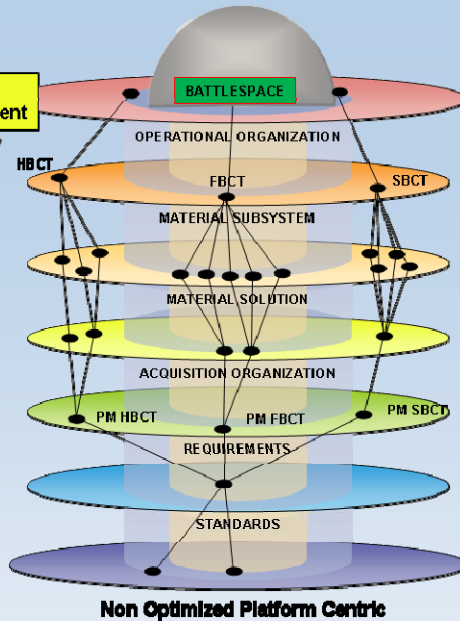
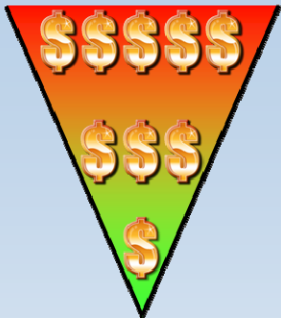


\*\* Computer industry technology "roadmaps" predict (as of 2001) that Moore's Law will continue for several chip generations.



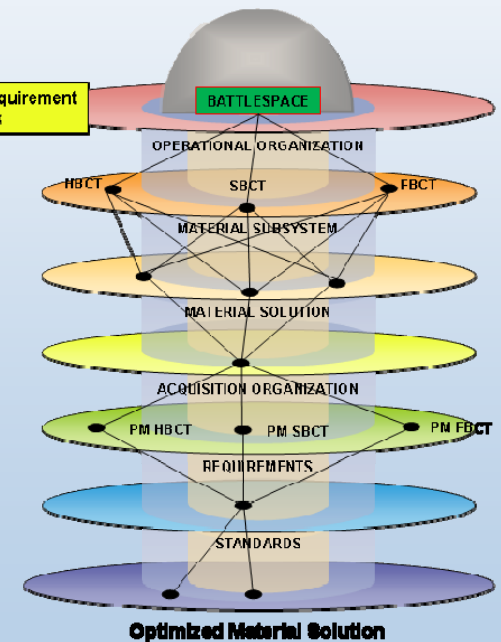
# Capabilities Management Challenge

Increase Cost Due to Multiple Solutions for the Same Requirement



Multiple, independent solutions increasing burden on the unit and impacting overall capability

Optimized Solution for Same Requirement Reduces Cost and Risk



Fewer, well coordinated materiel solutions that are employed consistently across all systems & optimizing overall capability

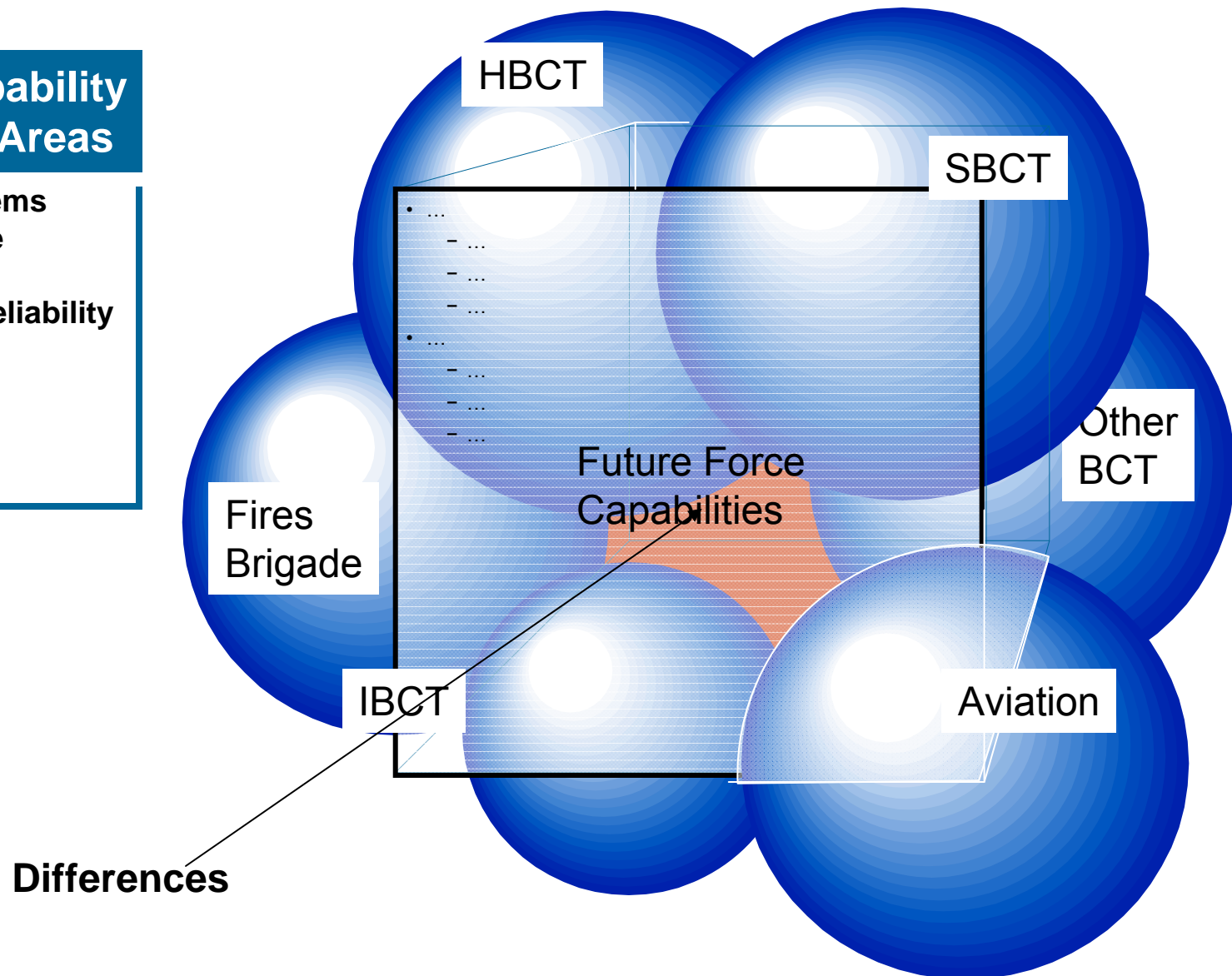




# ***CF Needs to meet Future Force Required Capabilities***

## **Sample Capability Difference Areas**

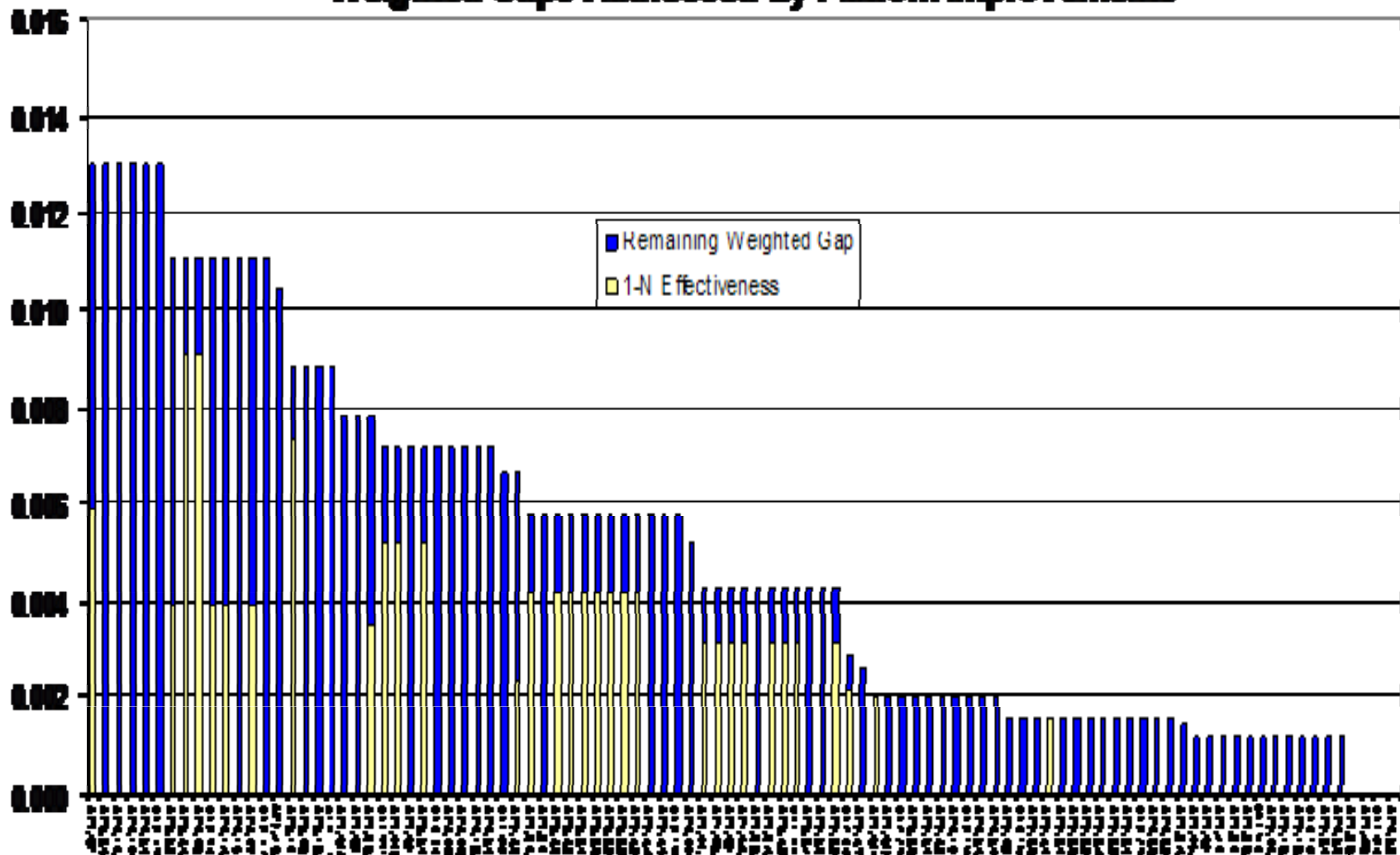
Unmanned Systems  
Networked Battle  
Command  
Supportability/Reliability  
Survivability  
Lethality  
....  
....





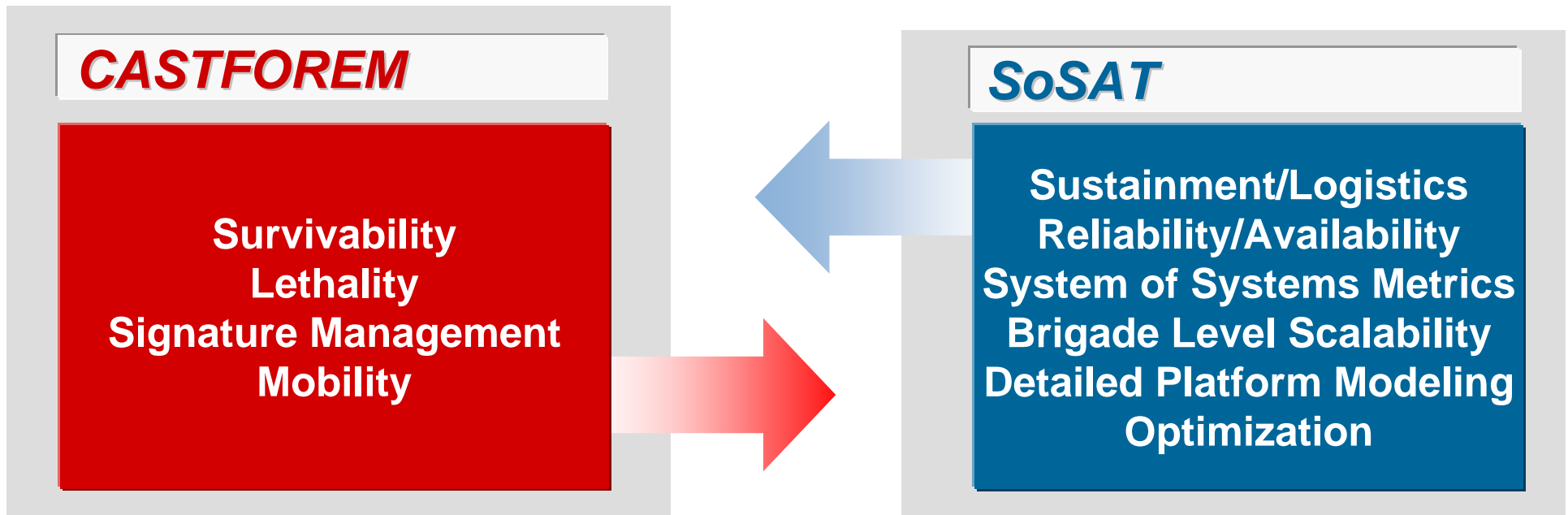
# *Notional 1-n Gap Analysis*

## **Weighted Gaps Addressed By Platform Improvements**





## *Linking SoSAT & CASTFOREM Conducting Evaluations of Alternatives to Identify Capability Gaps*

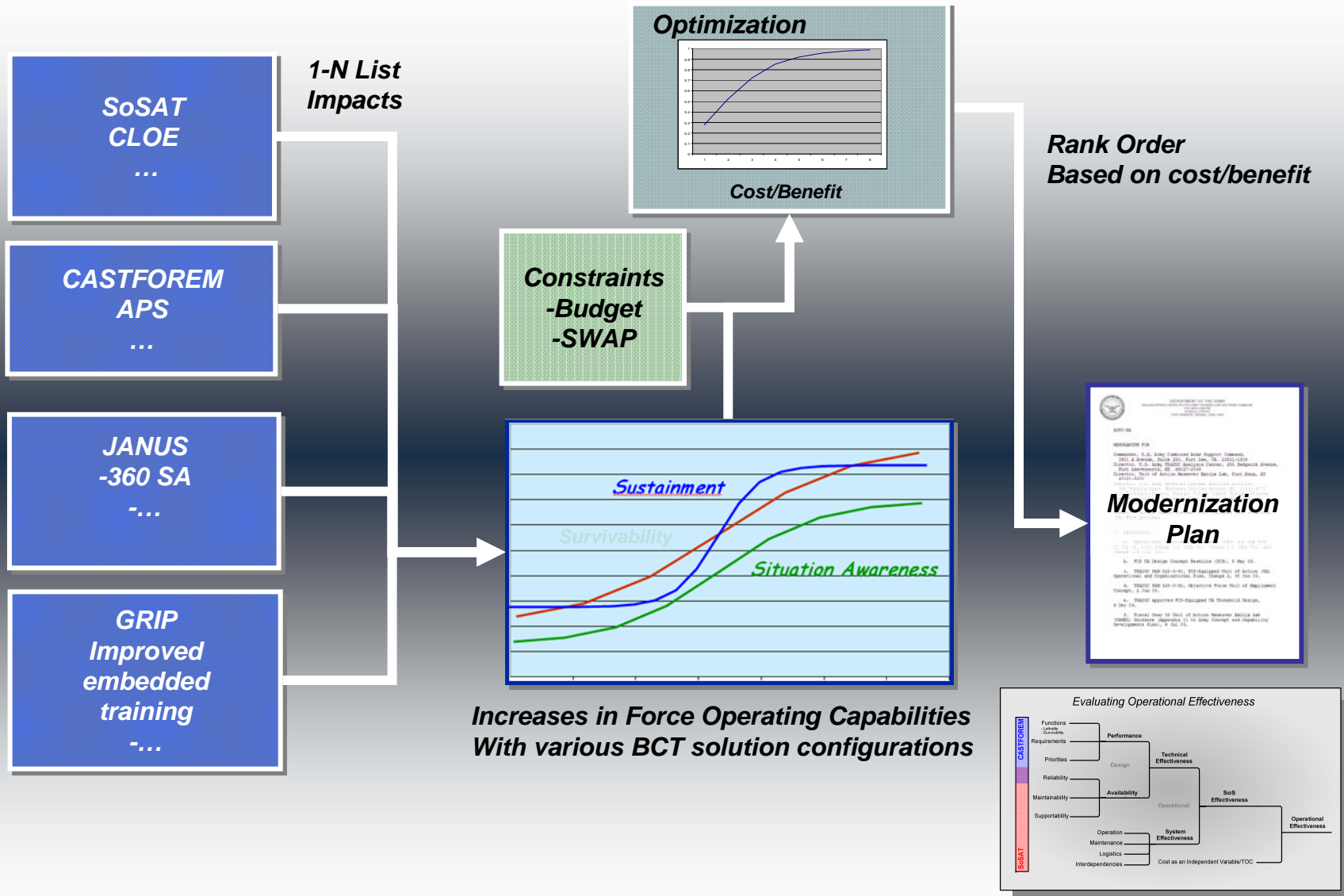


- **CASTFOREM** provides **SoSAT** parameters associated with warfighting technology effectiveness
  - e.g. probability of platform/subsystem mission survival, probability of mine detection
- **SoSAT** provides **CASTFOREM** parameters associated with platform reliability and sustainment
  - e.g. downtime due to (lack of) reliability failures





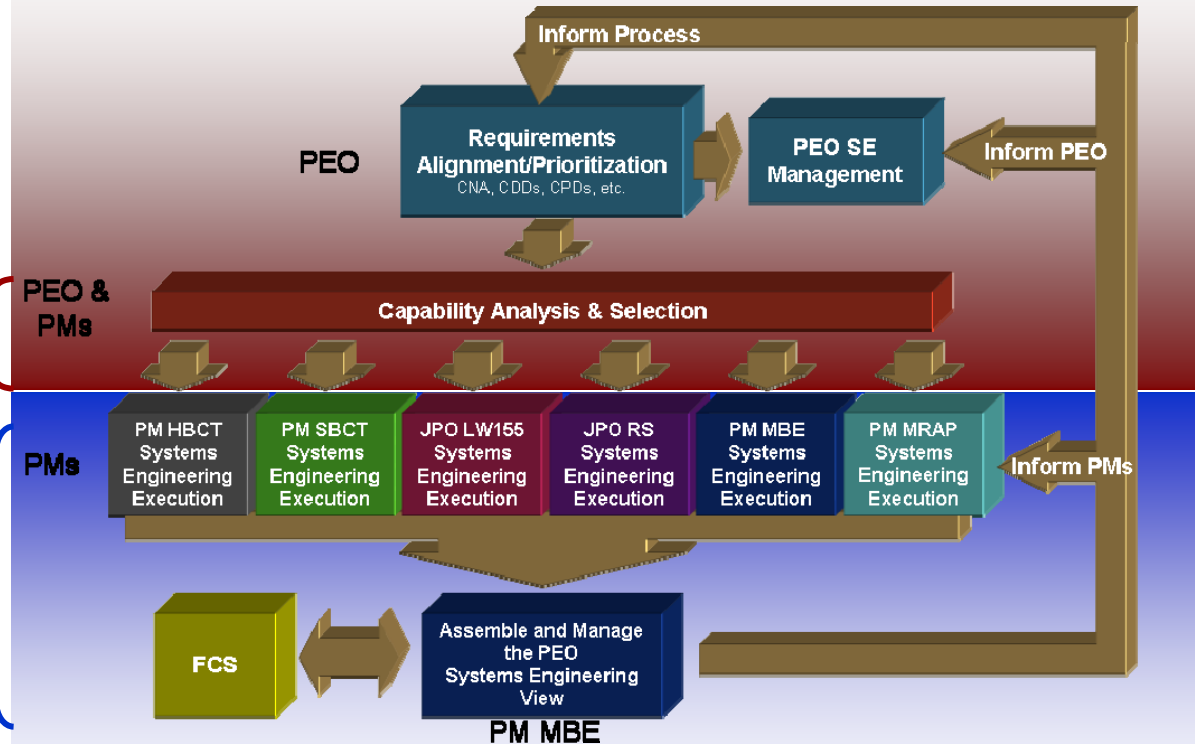
# Integrated Analyses to Maximize Operational Effectiveness





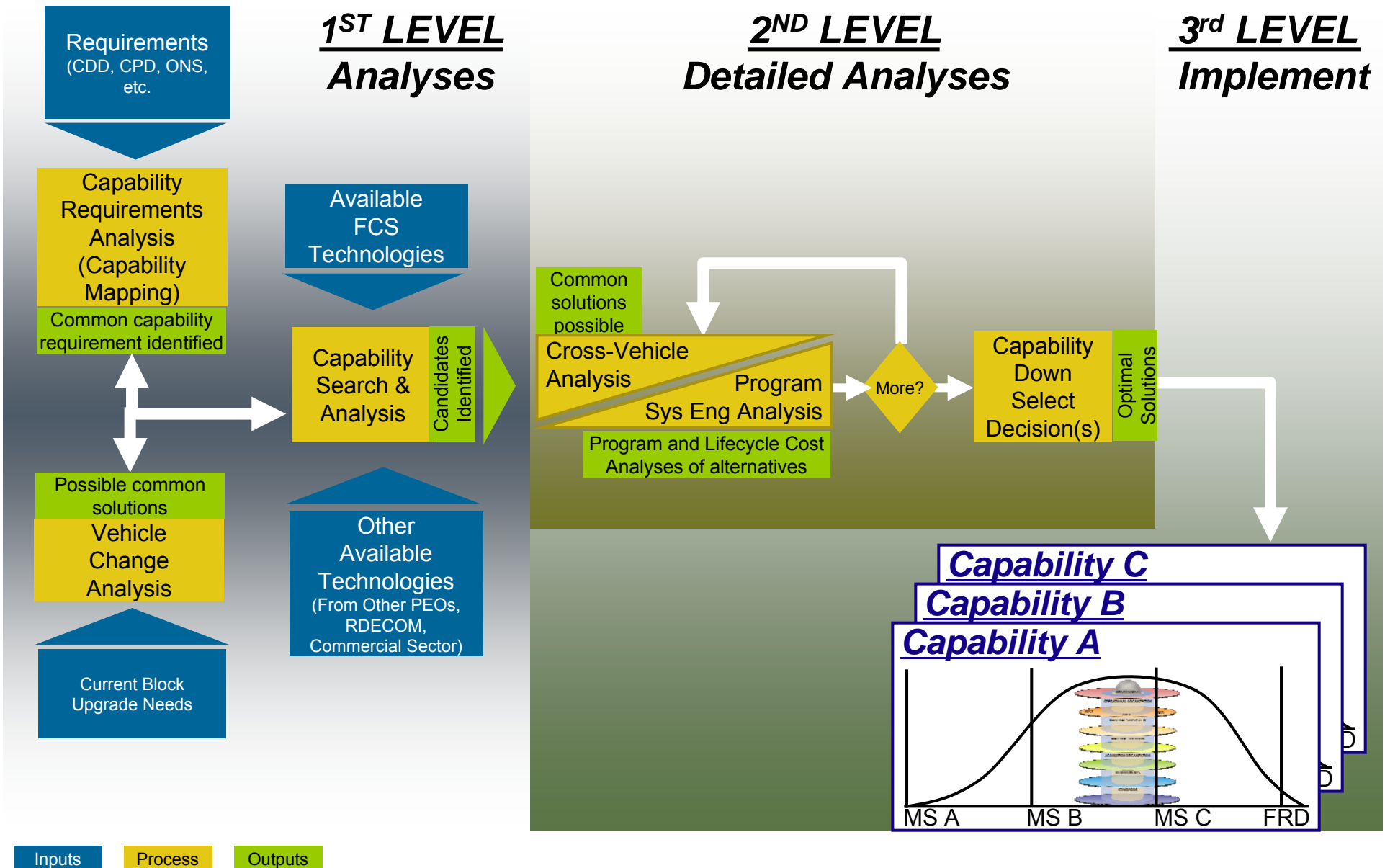
## PEO GCS SE Contracted Effort

- SE Contractor brought in to support execution of efforts like this
- Focus:
  - Supporting the execution of the common capability analysis
  - Developing for the PMs and PEO the SE processes
- Benefit:
  - They will get real-life experience with this effort and be able to develop better processes, determine tools and training needs





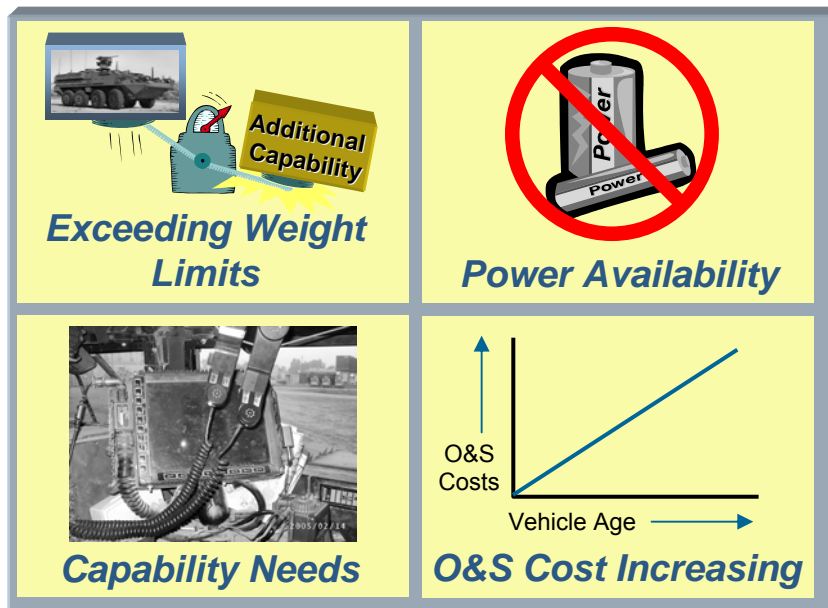
# Ground Vehicle Analyses Process





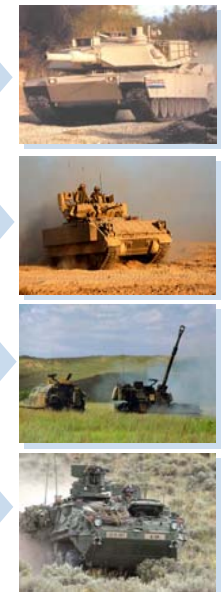
# PEO GCS Modernization Tenets

## Facing Common Upgrade Challenges

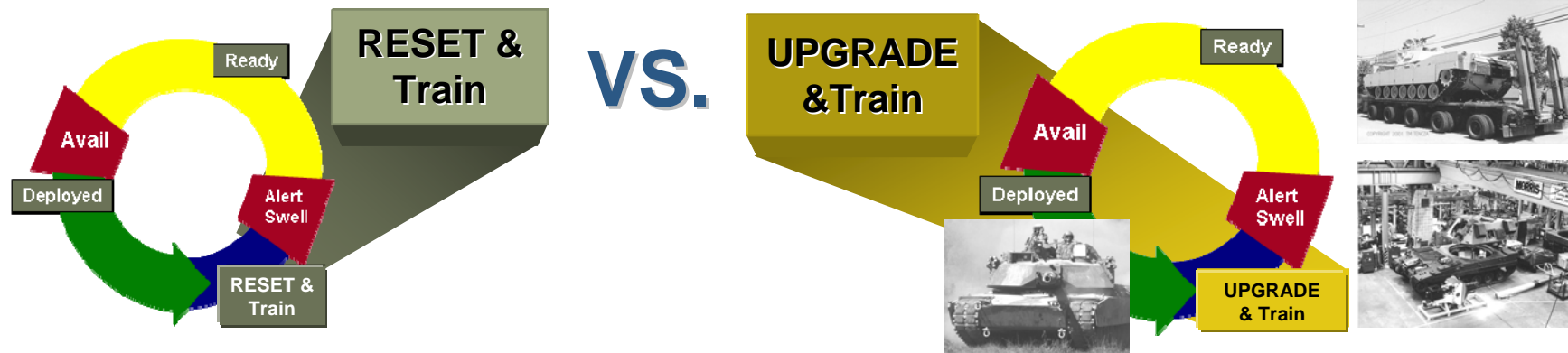


## Opportunity for Common solutions

- Minimizing Development Costs
- Commonized Capability Across Fleets
- O&S Cost Benefits
- Increased quantities yielding procurement cost saving



## Modernization Leveraging Arforgen



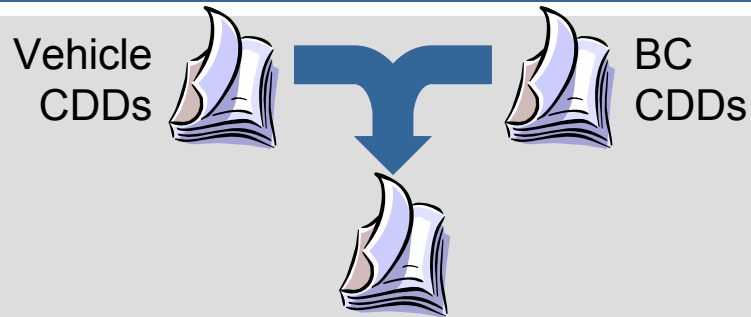


# SUMMARY

*Making It All Happen: “A Broad Ground Vehicle View”*

## Example: Programs Must Be Aligned To Enable Battle Command

### Requirements Alignment



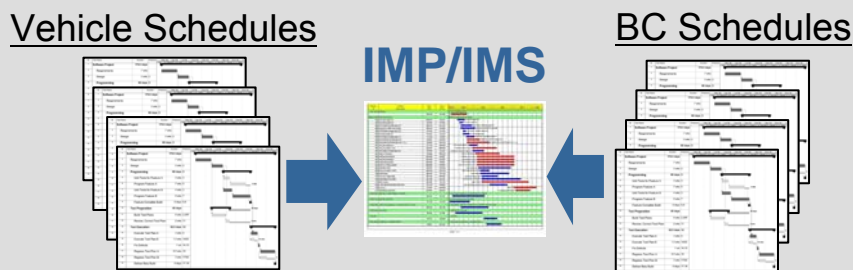
*Capability/Brigade-Level Requirements Documents*

### Funding Alignment

BC Hardware Funded + BC Software Funded + Vehicle Integration Funded = Fielded Battle Command

Any one of these are not funded = ~~Fielded Battle Command~~

### Schedule Alignment



### SO1 Is Marching In This Direction

- SO1 CDD
- SO1 Production Phase IMP/IMS under development
- Funds Management Alignment

Battle Command Development and Battle Command Vehicle Integration:

**Synchronization is the Key to Success**